

Title (en)

Multi-latching mechanisms and related method

Title (de)

Mehrfachverschlussmechanismus und zugehöriges Verfahren

Title (fr)

Mécanisme d'enclenchement à plusieurs positions et procédé associé

Publication

EP 2602494 A1 20130612 (EN)

Application

EP 12195900 A 20121206

Priority

- US 201161568529 P 20111208
- US 201213693289 A 20121204

Abstract (en)

Dual directional latch devices or connectors are described wherein a first connector component (12) and a second connector component (14) have a first latched position and a second latched position when moving in a first direction and wherein movement in a second direction is also possible when a restriction feature (26,40) is overcome. As described, opposing magnetic forces, pneumatic pressure, spring force, and a crushable force may be incorporated so that further movement in the second direction must overcome the restriction feature. The dual direction latch devices may be used with articles of manufacture such as with implantable medical devices, door panels, airplane panels, and drilling devices, to name a few.

IPC 8 full level

F16B 21/18 (2006.01); **A61N 1/375** (2006.01); **H01R 13/187** (2006.01); **F16B 1/00** (2006.01)

CPC (source: EP US)

A61N 1/3752 (2013.01 - EP US); **F16B 21/186** (2013.01 - EP US); **H01R 13/187** (2013.01 - EP US); **H01R 24/58** (2013.01 - EP US); **F16B 2200/10** (2018.08 - EP US); **F16B 2200/83** (2023.08 - EP US); **H01R 13/6205** (2013.01 - EP); **Y10T 29/49947** (2015.01 - EP US)

Citation (applicant)

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Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2602494 A1 20130612; **EP 2602494 B1 20170719**; CN 103166050 A 20130619; CN 103166050 B 20160907; JP 2013122319 A 20130620; US 2013149029 A1 20130613; US 9482255 B2 20161101

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